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09/265,489 03/09/99 CHANDRASEKARAN

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EXAMINER

NGUYEN, T

ART UNIT

PAPER NUMBER

2172

DATE MAILED:

07/17/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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Office Action Summary

Application No.

09/265,489

Applicant(s)

CHANDRASEKARAN ET AL.

Examiner

Tam V Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claims ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 16) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 20) ☐ Other: ____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 13-26 are rejected under 35 U.S.C 102(e) as being anticipated by Chandra et al. (US 6058389).

Re claim 13, Chandra et al. disclose a system for the delivery of information to multiple consumers, said system comprising: an information queue comprising one or more information queue records, each said information queue record comprising information to be accessed by one or more consumer, (Col. 6, lines 45-Col. 8, lines 60 and see fig. 3); a table comprising one or more table records, each said table record comprising an information identification field comprising an identification of said information in an information queue record, each said table record further comprising a consumer identification field comprising an identification of one or said one or more consumers, (Col. 6, lines 45-Col. 8, lines 60 and see fig. 3).

Re claim 14, the system for the delivery of information to multiple consumer of claim 13, in which each said information queue record further comprises said

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identification of said information of said information queue record, (Col. 27, lines 66-Col. 28, lines 68).

Re claim 15, the system for the delivery of information to multiple consumer of claim 13, in which each said table record further comprises a message state field that indicates if the information in said information queue identified in the corresponding information identification field of said table record has been delivered to the consumer identified in the consumer identification field of said table record, (Col 30, lines 30-Col. 32, lines 68).

Re claim 16, the system for the delivery of information to multiple consumer of claim 13, further comprising a read-order table, said read-order table comprising order data indicating the order that information in said information queue is to be delivered to a consumer, (Col. 6, lines 12-Col. 8, lines 67).

Re claim 17, the system for the delivery of information to multiple consumer of claim 16, in which said read-order table comprises one or more records, each said record of said read-order table comprising an identification field that identifies information in a information queue record, each said record of said read-order table further comprising an enqueue time field that comprises said order data, (Col. 6, lines 12-Col. 8, lines 67 and Col. 11, lines 21-Col. 13, lines 65).

Re claim 18, the system for the delivery of information to multiple consumer of claim 13, further comprising a work list table, said work list table comprising one or more work list entries, each said work list entry comprising an identification of information in an information queue record, (Col. 6, lines 45-Col. 8, lines 60 and see fig. 2).

Re claim 19, the system for the delivery of information to multiple consumers of claim 18, in which each said work list entry is a record, (Col. 6, lines 45-Col. 8, lines 60 and see fig. 2).

Re claim 20, the system for the delivery of information to multiple consumer of claim 18, in which said work list table comprises one or more work records and each said work list entry is a field in a work record, (Col. 6, lines 45-Col. 8, lines 60).

Re claim 21, the system for the delivery of information to multiple consumer, said system comprising: a message queue comprising one or more message queue records, each said one or more message queue records comprising a message and a message identification, (Col. 27, lines 10-Col. 29, lines 21); and a history table comprising one or more history records, each of said one or more history record comprising a message identification, a consumer identification and a message state identification, (Col. 12, lines 10-Col. 15, lines 65 and col. 19, lines 28-43); and a work list table comprising one or more work list entries, each said work list entry comprising a message identification, (Col 27, lines 65-Col. 28, lines 65).

Re claim 22, the system for the delivery of information to multiple consumer of claim 21, further comprising a read-order table comprising one or more read-order records, each said read-order record comprising a message identification and order data, said order data indicating the relative order that the message of said message queue that is identified by the message identification of said read-order record is to be delivered to a consumer, (Col. 6, lines 12-Col. 8, lines 67 and Col. 11, lines 21-Col. 13, lines 65).

Re claim 23, a method for multiple consumers to access information in a non first-in first-out, prescribed order, said information comprising one or more pieces of information, a first piece of information stored in a first location, said method comprising: providing access to said first piece of information to a first consumer of said multiple consumers, (col. 6, lines 13-col. 8, lines 68); indicating in a record location that said first consumer has accessed said first piece of information, (Col. 30, lines 30-Col. 32, lines 60); providing access to said first piece of information to a second consumer said first piece of information, (Col. 6 lines 13-Col. 8, lines 68); and indicating in a third location that said second consumer has accessed said first piece of information, (Col. 30, lines 30-Col. 32, lines 60).

Re claim 24, the method for multiple consumers to access information 23, in which said first location comprises an information entry in a queue of information, (Col. 6, lines 12-Col. 8, lines 65).

Re claim 25, the method for multiple consumers to access information of claim 24, in which said queue of information comprises one or more information entries, and each said information entry comprises a piece of information to be accessed by one or more of said multiple consumers, each said information entry further comprising an identification of said piece of information in said information entry, (Col. 6, lines –Col. 8, lines 65).

Re claim 26, the method for multiple consumers to access information of claim 25, further comprising deleting said entry comprising said first piece of information that said first consumer and said second consumer is provided access to from said queue of information after said first consumer and said second consumer have accessed said first piece of information, (Col. 19, lines 28-Col. 20, lines 65 and see fig. 6A)

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-12 rejected under 35 U.S.C. 103(a) as being unpatentable over Capps (US 5666502).

Re claim 1, a method for managing information to be accessed by multiple consumers, said information comprising one or more information records, said information records to be accessed by said multiple consumers in a specified order, each said information record comprising data to be accessed by a consumer, said method comprising: providing said data of an information record to a consumer, (Col. 9, lines 41-Col. 10, lines 33 and see fig. 4); and updating a history table, said history table comprising a message table field, said updating comprising setting said message state field in a history record corresponding to said consumer to indicate said consumer accessed said data, (Col. 11, lines 32-Col. 12, lines 61 and see fig. 7, 6A/B, and 10-12).

Capps does not clearly disclose "message state field in history record"; however, Capps shows the history table includes a string/pointer section, a time section and a number of uses section, (Col. 11, lines 20-31). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the taught that each history table record contained a message id field, a consumer id field and a message state field, etc.

Re claim 2, Capps further disclose the method for managing information of claim 1, in which each said information record further comprises a message identifier value

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that identifies the data of said information record and each said history record further comprises a message id field that identifies data in an information record, (Col. 11, lines 15-Col. 12, lines 61).

Re claim 3, Capps further disclose the method for managing information of claim 2, in which each said history record further comprises a consumer id field that identifies a consumer of said multiple consumers that is to access data in an information record, said data identified by said message id field in said history record, said consumer id field of said history record identifying said history record as corresponding to said consumer, (Col. 11, lines 14-Col. 12, lines 61).

Re claim 4, Capps further disclose the method for managing information of claim 3, in which said updating comprises setting said message state field in the history record with a message id field that identifies said data that said consumer is provider access to and with a consumer id field that identifies said consumer, (Col. 11, lines 14-Col. 12, lines 61).

Re claim 5, Capps further disclose the method for managing information of claim 1, in which said history table comprises a history record for each consumer, for each information record comprising data to be provided to each said consumer, and in which prefix index key compression is used to store only one instance of a message identifier

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value that identifies the data of an information record in said history table for each history record for said information record, (Col. 11, lines 14-Col. 12, lines 61).

Re claim 6, Capps further disclose the method for managing information of claim 1, further comprising storing data to be accessed by a consumer in an information record, (Col. 16, lines 50-Col. 7, lines 7); creating a history record for each consumer that is to access said data, (Col. 16, lines 23-Col. 49); and setting said message state field in each said history record to indicate said data has not been accessed, (Col. 15, lines 6-46).

Re claim 7, Capps further disclose the method for managing information of claim 1, further comprising a read-order table, said read-order table comprising order data that indicates the relative order that data in said information records is to be accessed by said multiple consumers, said method further comprising identifying the data of an information record that a consumer is to be provided access to by said order data in said read-order table, (Col. 12, lines 24-Col. 13, lines 29).

Re claim 8, Capps further disclose the method for managing information of claim 1, further comprising; reading one or more history records of said history table, said one or more history records comprising a history table read, (Col. 12, lines 24-Col. 13, lines 29); and deleting an information record if all the message state fields in all of the history

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records of said history table read indicate that said data in said information record has been accessed, (Col. 9, lines 41-Col. 10, lines 44).

Re claim 9, Capps further disclose the method for managing information of claim 1, further comprising a work list table, said work list table comprising one or more work entries, each said work entry comprising an identification of data in an information record, (Col. 11, lines 21-Col. 12, lines 23).

Re claim 10, Capps further disclose the method for managing information of claim 9, further comprising adding a work entry to said work list table, said work entry comprising an identification of said consumer is provided access to, (Col 9, lines 40-Col. 10, lines 44).

Re claim 11, Capps further disclose the method for managing information of claim 9, further comprising accessing a work entry in said work list table, (Col. 9, lines 40-Col. 10, lines 44); reading one or more history records of said history table, said one or more history records comprising a history table read, said one or more history records comprising said history table read determined by said work entry, (Col. 11, lines 14-Col. 12, lines 61); and deleting an information record if all the message state fields in all of the history records of said history table read indicate that said data in said information record has been accessed, (Col. 11, lines 14-Col 12, lines 61).

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Re claim 12, Capps further disclose the method for managing information of claim 9, further comprising: batching two or more work entries in said work list table, (Col. 10, lines 45-68); and performing in a single transaction reading one or more history records of said history table, said one or more history records determined by said two or more work entries, (Col. 11, lines 14-Col. 12, lines 23); and deleting one or more information records, (Col. 15, lines 3-46).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Le et al. (US 6018717) shows method and apparatus for acquiring access using a fast smart card transaction.

Nevarez et al. (US 6189103) shows authority delegation with secure operating system queues.

Silverberg (US 6216110B1) shows system and method for publishing calendar information to a publicly accessible location.

Seaman (US 5428766) shows error detection scheme in a multiprocessor environment.

Contact Fax Information

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

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Or Faxed to:

(703) 308-9051, (for formal communication intended for entry)

Or:

(703) 308-5399, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA. Sixth Floor (Receptionist).

Contact Information


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tam Nguyen whose telephone number is (703) 305-3735. The examiner can normally be reached on Monday through Friday from 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Yen Vu, can be reached on (703) 305-4393. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-5399.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

TV: tv

07/11/2001


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